ABSTRACT OF THE DISCLOSURE

Analyzers and methods of analysis are described for performing blood cell counting and immunoassay on a whole blood specimen in one measurement section. An assay sample is prepared by blending carrier particles sensitized with an antibody or an antigen against a substance to be immunoassayed and a fluorescent dye for staining blood cells with the whole blood specimen. Optical information is detected from a particle in the assay sample, and the blood cells are differentiated and counted based on the detected optical information. A rate of agglutination of the carrier particles is obtained based on the detected optical information, thereby enabling detection of the substance to be immunoassayed.